

ABSTRACT OF THE DISCLOSURE

An electron-emitting device includes a substrate,
first and second carbon films disposed so as to have a
first gap between the first and second carbon films on
5 a surface of the substrate, and first and second
electrodes electrically connected with the first and
the second carbon films respectively, wherein the
carbon film has a region showing orientation, and a
direction of the orientation is in an approximately
10 parallel direction along the substrate surface.
Thereby, it is possible to improve thermal and chemical
stability of a carbon film and stabilize good electron
emission characteristics over a long period.